

PE/Cyanine7 anti-human CD357 (GITR) Antibody

Catalog# / Size	371223 / 25 tests 371224 / 100 tests
Clone	108-17
Regulatory Status	RUO
Other Names	TNFRSF18, Activation-inducible TNFR, AITR, Glucocorticoid-inducible TNFR
Isotype	Mouse IgG2a, κ
Description	<p>GITR (glucocorticoid-induced TNF receptor family-regulated gene) is a 25 kD TNF receptor superfamily member (also known as AITR and TNFRSF18). GITR is expressed on activated lymphocytes and is upregulated by T cell receptor engagement. The cytoplasmic domain of GITR is homologous to CD40, 4-1BB and CD27 and has been shown to interact with TRAF 1-3, but not TRAF 5 or 6. GITR signaling has been shown to regulate T cell proliferation and TCR-mediated apoptosis, and to break immunological self-tolerance. GITR binds GITRL and is involved in the development of regulatory T cells and to regulate the activity of Th1 subsets.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human GITR-Fc chimera
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact Technical Service if you have any questions.
Product Citations	1. Kim DH, <i>et al.</i> 2021. eLife. 10:00. PubMed
RRID	AB_2687170 (BioLegend Cat. No. 371223) AB_2687171 (BioLegend Cat. No. 371224)

Antigen Details

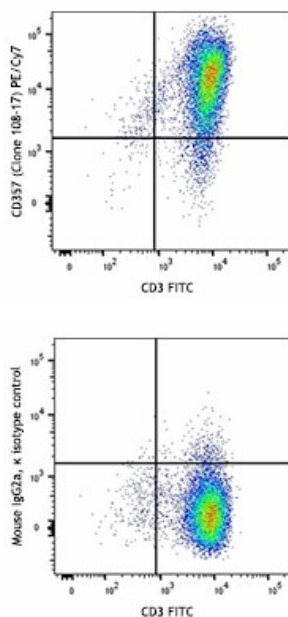
Structure	TNFR superfamily, 234-amino acid type I transmembrane protein, 25 kD.
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Distribution	Activated lymphocytes.
Function	Interacts with TRAF's 1-3, but not TRAF 5 or 6, mediates NF- κ B activation through the TRAF2/NIK pathway.
Ligand/Receptor	GITRL
Cell Type	Lymphocytes, Tregs
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. van der Werf N, <i>et al.</i> 2011. <i>J. Immunol.</i> 187:1411. 2. Shimizu J, <i>et al.</i> 2002. <i>Nat. Immunol.</i> 3:135. 3. McHugh RS, <i>et al.</i> 2002. <i>Immunity</i> 16:311. 4. Kwon B, <i>et al.</i> 1999. <i>J. Biol. Chem.</i> 274:6056.
Gene ID	8784

Other Formats

Purified anti-human CD357 (GITR), Brilliant Violet 421™ anti-human CD357 (GITR), PE anti-human CD357 (GITR), APC anti-human CD357 (GITR), Alexa Fluor® 488 anti-human CD357 (GITR), Brilliant Violet 605™ anti-human CD357 (GITR), PerCP/Cyanine5.5 anti-human CD357 (GITR), PE/Cyanine7 anti-human CD357 (GITR), Biotin anti-human CD357 (GITR), Brilliant Violet 711™ anti-human CD357 (GITR), APC/Fire™ 750 anti-human CD357 (GITR), Alexa Fluor® 647 anti-human CD357 (GITR), TotalSeq™-A0360 anti-human CD357 (GITR), TotalSeq™-C0360 anti-human CD357 (GITR), Brilliant Violet 750™ anti-human CD357 (GITR), TotalSeq™-B0360 anti-human CD357 (GITR), TotalSeq™-D0360 anti-human CD357 (GITR)

Product Data



Human peripheral blood lymphocytes were activated for three days with PHA, and then stained with CD3 FITC and CD357 (clone 108-17) PE/Cyanine7 (top) or mouse IgG2a, κ PE/Cyanine7 isotype control (bottom).

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